Connecticut Education Network Commission Update

Legislative Office Building December 12, 2001





K12 Survey Process Completion

- Database status & evolution to web presence
- Final reports to districts
- K12 Preliminary Findings
 - Physical Infrastructure
 - Networking Equipment & Wiring
 - Connections within a district
 - Connections from the District out to the Internet
 - Network Support Service
- Preliminary recommendations





CEN Deployment Activities

- Data Center Completion
- Help Desk / Network Operations Center
- Phase 1 Sites (1st 6 K12, Backbone, HiEd)
 - Circuit Installations / Circuit Extensions
 - CEN Equipment Installation
 - Cutover planning / Execution
- Phase 2 Sites





Long-Term Lease Fiber Contract

- State Master Agreement
- Leased "Unlit" Fiber over extended term
- Long term aggregate cost moved into upfront payments, lower ongoing cost
- Monitoring, Maintenance, Repair by vendor





Other Leased Fiber Notes

- Fully Redundant links to each location
- 6 times more bandwidth to grow into
- Less equipment to be upgraded in future

• Vendor is responsible for maintaining the cables on the poles and outside break/fix





CEN Fiber Backbone

October 2001

4 Strands for delivery in Spring 2002

Derby

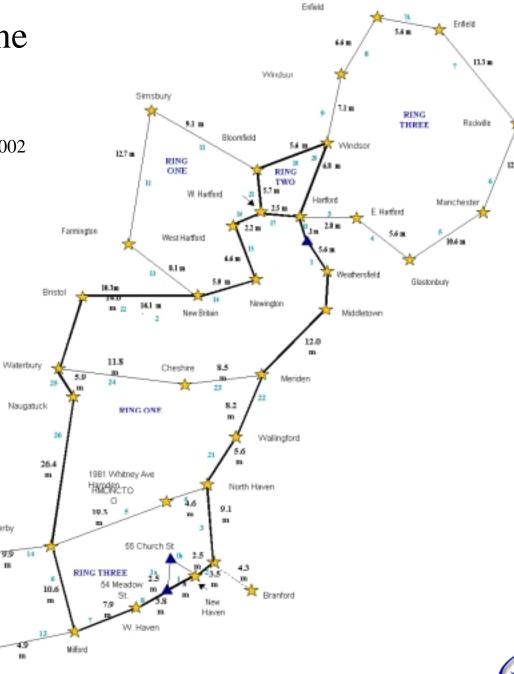
RING TWO

Bridgeport

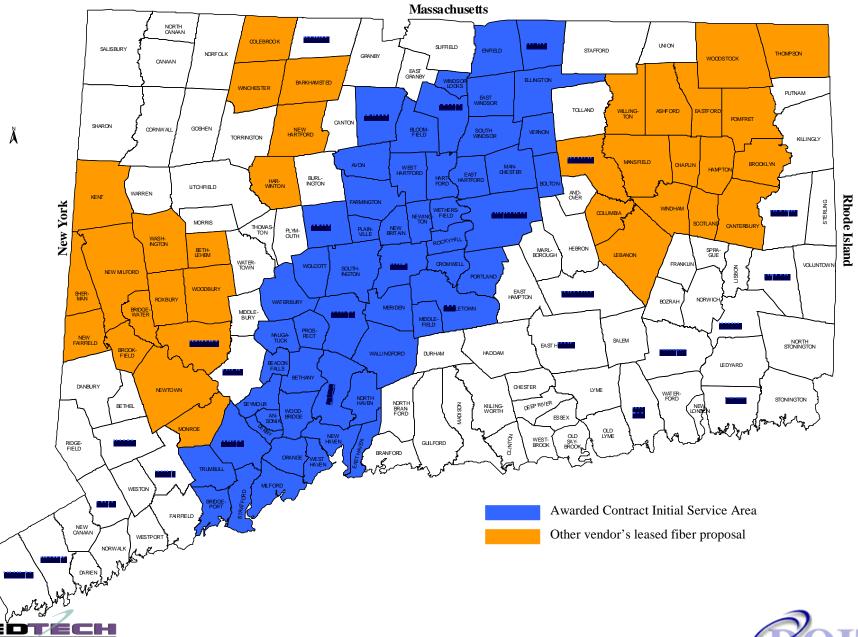
Future CEN backbone expansion

Trumbuli 4.3

Bridgeport









Leased Fiber –vs- Traditional Services

	1 Year	2 Year	5 Year	10 Year	15 Years
Leased Fiber	\$3,450,000 One Time				
Services	\$292,950 Operating				
	\$4,626,450	\$4,919,400	\$5,798,250	\$7,263,000	\$8,272,750
Traditional	\$945,500 One Time				
Services	\$1,871,160 Operating				_
	\$2,816,660	\$4,687,820	\$10,301,300	\$19,657,100	\$29,012,900



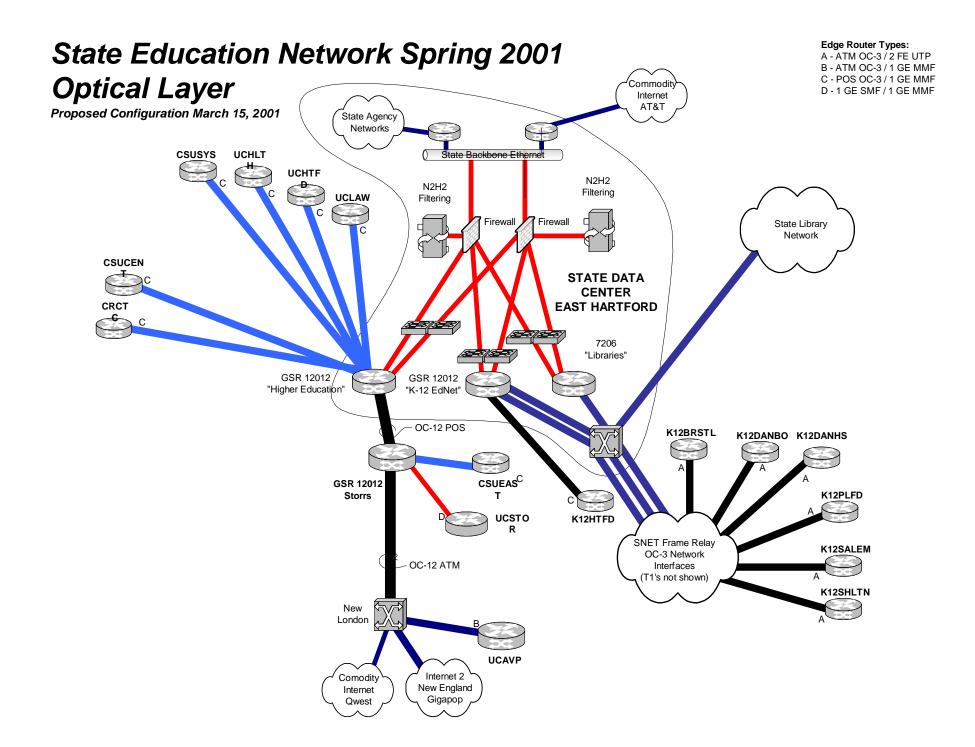


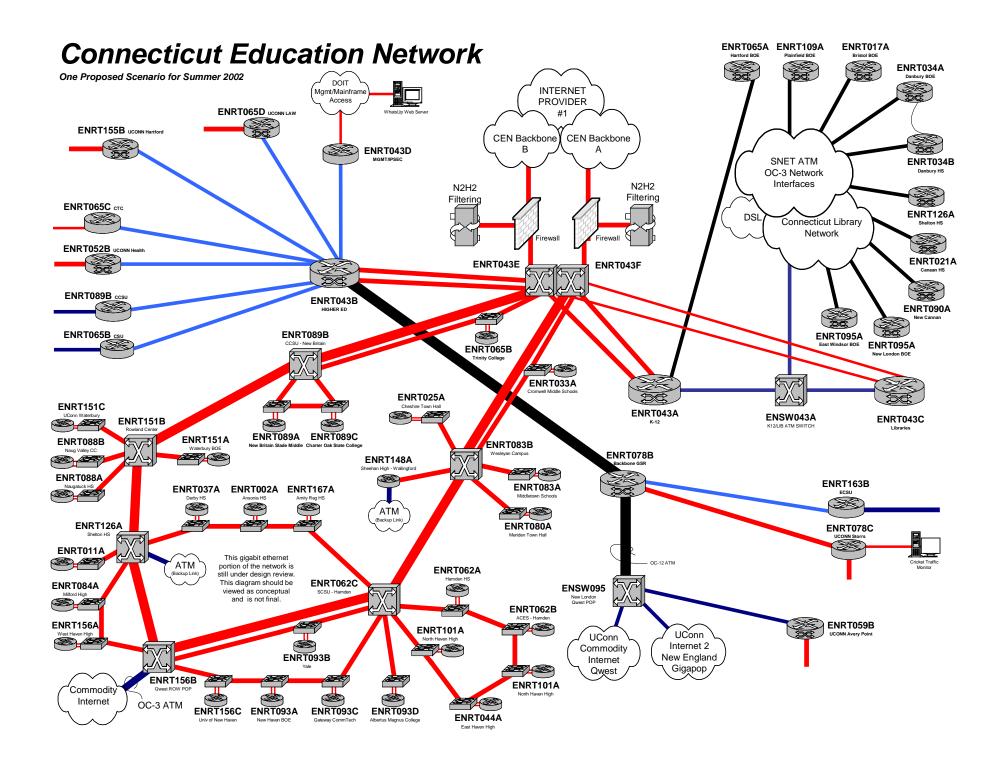
Other Contract Thoughts

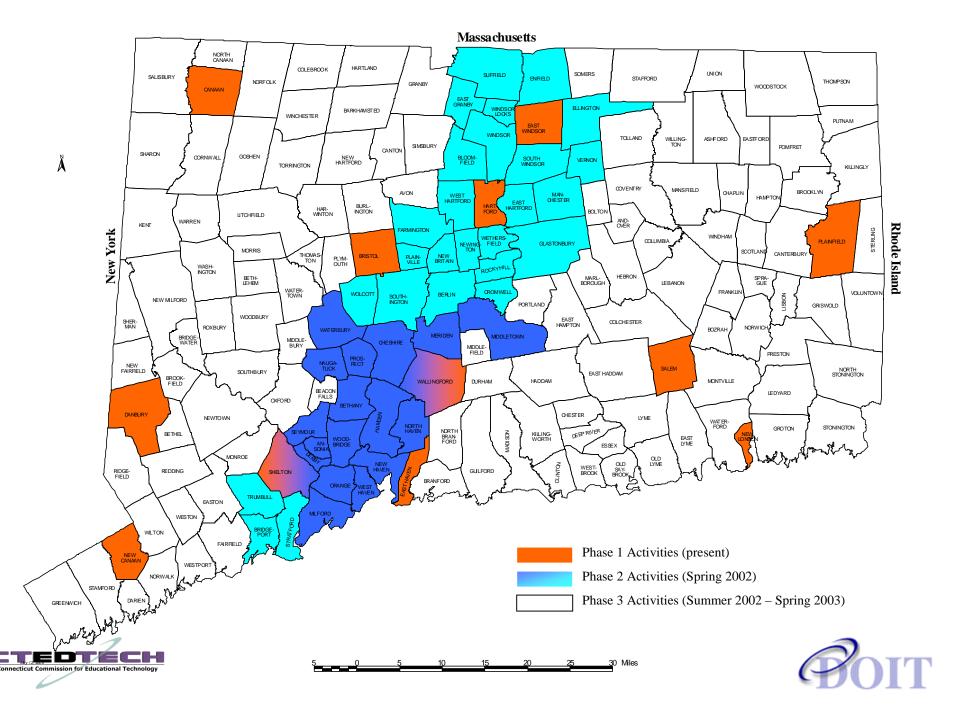
- Expect to issue another RFP for additional leased fiber providers
- Will be using this contract in combination with traditional services
- Great deal of enthusiasm in networking community











Higher Education Forum

- Attendance from 6 Privates, 3 Publics
- Discussion on collaborative efforts, K-12 interactions, inter-institutional needs
- Internet Service Provider Provisioning
- Monthly to bi-monthly meetings anticipated





Proposed Connecticut Higher Education ISP Model

(CEN Funded Circuits)

N = Number of Participating Colleges

M = Requested Megabits for that site

Model 2

Cost Calculator

Cost per site = (\$250,000 / n / 12) + (\$320 * M)





Model Examples (CEN Backbone Circuits)

Current Stand
Alone Costs

Collaborative Model

Collaborative Model *Plus*

10 Institutions150 Mbps

10 Institutions150 Mbps

10 Institutions234 Mbps

\$101,459 / mo

\$49,483 / mo

\$76,500 / mo





CEN Website

http://www.doit.state.ct.us/cen

FAQ's

Architecture

Engineering

Status Monitoring / Traffic Monitoring







Questions & Discussion

Contact Information:

Rob Vietzke, CEN Network Architect 860-622-2238

Rob. Vietzke@uconn.edu

John Vittner, CEN Implementation Manager 860-622-2241

John.Vittner@po.state.ct.us

Bob Dixon, Director of Enterprise Network Services 860-622-2435

Robert.Dixon@po.state.ct.us

www.doit.state.ct.us/cen



